

## NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not show all areas subject to flooding or all areas where flooding may occur from major sources of small size. The flood hazard map repository should be consulted for possible update or revision.

To determine flood hazards in areas where Base Flood Elevation (BFE) and/or Floodways have been determined, users are encouraged to consult the Flood Profile and Floodway Data and Summary of Flood Hazards tables contained within the FIRM. These tables contain information that encompasses these areas and should be used as the sole source of flood elevation information. Accordingly, floodplain management decisions should be based on the FIRM tables and not the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only to locations of 0.0 feet elevation or greater above mean sea level. The 1% annual chance flood wave that coastal flood elevations are also provided in the Summary of Shallow Floodways table. The FIRM contains a table that summarizes the locations of areas that should not be used as the sole source of flood elevation information. Accordingly, floodplain management decisions should be based on the FIRM tables and not the FIRM for purposes of construction and/or floodplain management.

Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to the effects of wave run-up, wave overtopping, and wave breaking.

The All VE zone category has been divided by a Limit of Moderate Wave Action (LUMWA) value of 1.0 feet. Areas with LUMWA values less than 1.0 foot are not subject to flooding from the 1% annual chance wave. The effects of wave run-up, wave overtopping, and wave breaking wave. The effects of wave hazards between the VE Zone and the LUMWA value are not included in the VE Zone. Areas with LUMWA values greater than 1.0 foot are subject to flooding from the 1% annual chance wave. The VE Zone is not identified, but less severe than those in the VE Zone.

Certain areas in the Special Flood Hazard Areas may be protected by flood control structures. For more information, contact your insurance agent or your flood insurance Study Report for information on flood control structures in the jurisdiction.

The projection used in the preparation of this map was Massachusetts State Plane Merit (FIPS zone 2001). The horizontal datum was WGS 1984. The vertical datum was NAD 1983 Vertical Datum. The UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in the boundaries of the FIRM. The projection used in the preparation of this map was Massachusetts State Plane Merit (FIPS zone 2001). The horizontal datum was WGS 1984. The vertical datum was NAD 1983 Vertical Datum. The UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in the boundaries of the FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the two vertical datums, please refer to the National Geodetic Survey's Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.nga.noaa.gov> or call the National Geodetic Survey, Survey of the following address.

NGVD Information Services  
NOAA, NGVD52  
National Geodetic Survey  
2834-B, #202  
1430 King Street  
Silver Spring, Maryland 20910-2295  
(301) 734-1000

To obtain current elevation, duration, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 734-1000 or via e-mail at [ngvd@noaa.gov](mailto:ngvd@noaa.gov).

Base map information shown on the FIRM was derived from the Massachusetts Geographic Information System (MassGIS) and the U.S.D.A. Farm Service Agency historical aerial imagery Program (NAIP). Aerial photography is dated 2005, April 2008, and 2010.

The profile baselines depicted on this map represent the hydraulic modeling baselines used to determine the 1% annual chance flood elevations. The profile baseline data, the profile baselines, in some cases, may deviate significantly from channel centerline or appear outside the stream channel.

The profile baselines more often than not do not represent stream channel configurations than those shown on previous FIRMs for this jurisdiction. The floodplain and floodways that were transferred from the previous FIRM were not adjusted to reflect the new stream channel configurations. Areas marked with a \* on the Flood Profiles and Floodways Data tables for multiple entries in the Flood Hazards table are the configuration of the stream channel that is different than the stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the most recent available at the time of preparation of this map. Corporate limits shown on this map may have changed after this map was published. Map users should contact appropriate community officials for the most recent information on corporate limits.

Please refer to the separately printed Map Index for an overview map of the county showing the layout of map series, community map repository addresses, and a legend describing symbols used on the maps. The Map Index also lists the name for each community as well as a listing of the parishes of which each community is located.

For information on available products associated with this FIRM visit the Map Services website at <http://www.fema.gov/fms>. Many of these products include previously issued Letters of Map Change; a Flood Insurance Study Report, and Flood Insurance Rate Maps. Many of these products can be ordered or obtained directly from the FMS website.

If you have questions about this map, to order products, or the National Flood Insurance Program, call the FEMA Flood Information Exchange (FIMX) at 1-877-FEMA-MAP (1-877-332-2621) or visit the FEMA website at <http://www.fema.gov/businesses>.

Only coastal structures that are certified to provide protection from the 1% annual chance wave are eligible for insurance coverage under the NFIP. Consideration for the purpose of coastal flood hazard analysis and mapping are present in the FIRM database in S\_Gen\_Beach.

